

Fig. 1

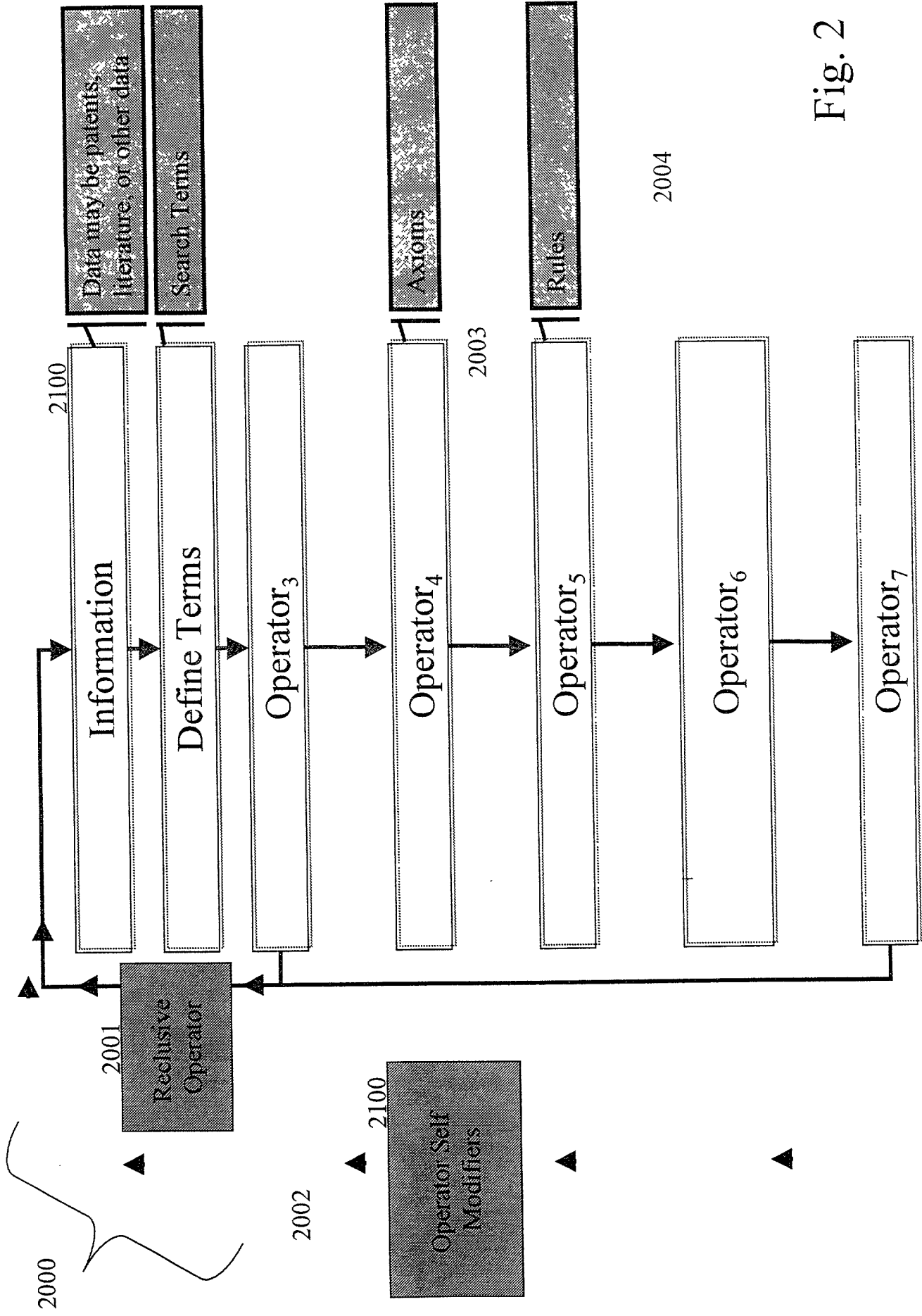


Fig. 2

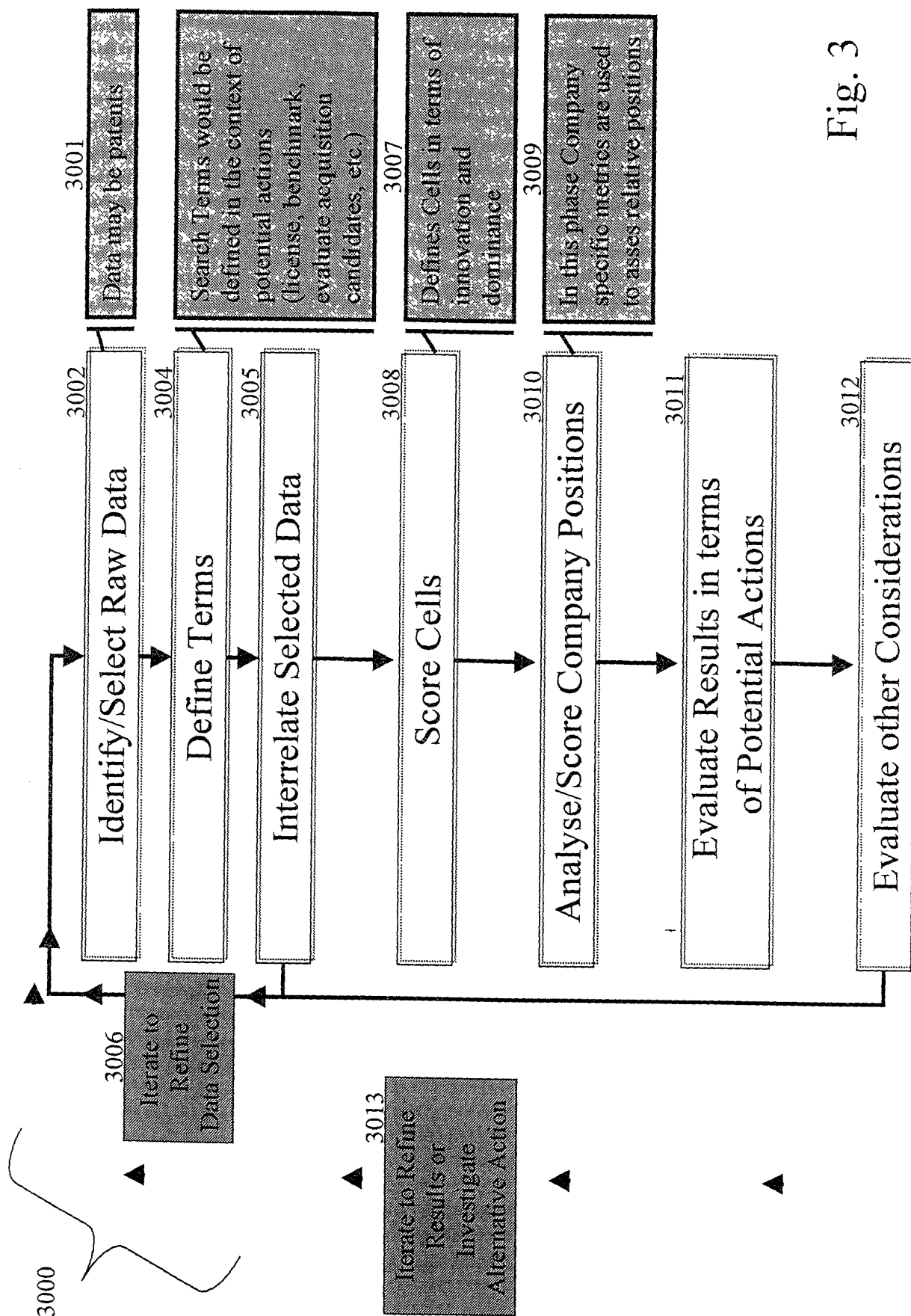


Fig. 3

[illegible]4081

4082

Initial Definitions

SEARCH TERM - a string of text to be found within the Text or Claims of desired patents.

Search Terms can be classified as either "Action" or "Object."

Several related Action Search Terms may be combined to reflect a single Action.

CELL - a cross section of Search Terms (Action x Object).

Cells are given a reference code (e.g. A01) to depict the combination of source Search Terms.

The reference code may be followed by a C or T to note that the search terms were found within the Text or Claims of the included patents.

CLUSTER - a group of naturally related cells.

FIELD - a patent landscape defined by the composite of all cells.

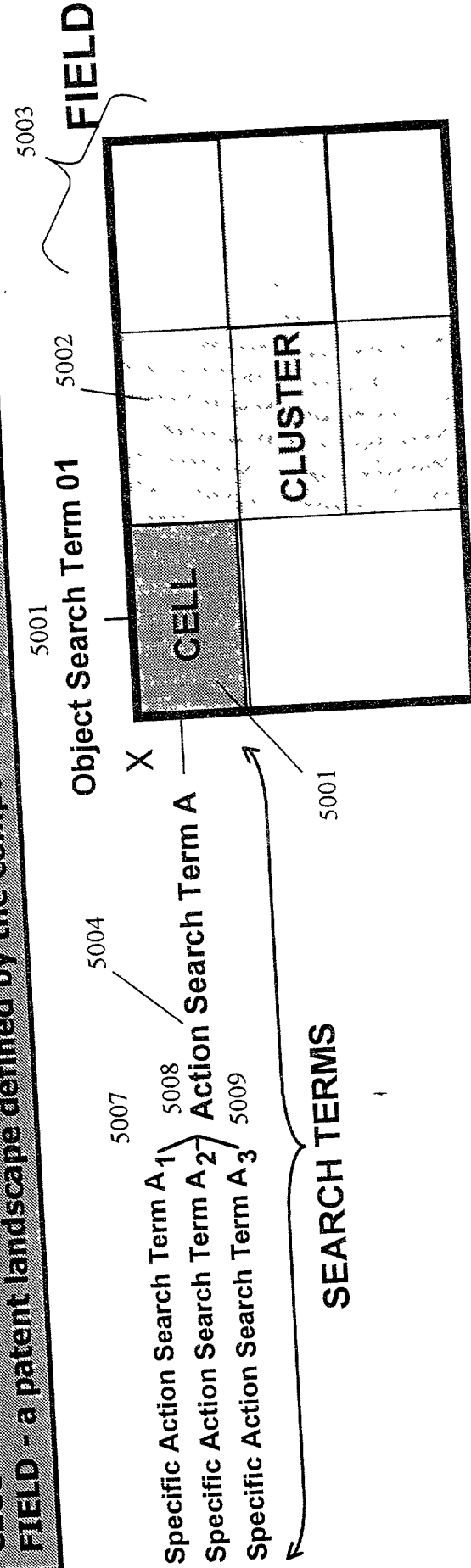


Fig. 5

The Power to be Both Focused and Inclusive

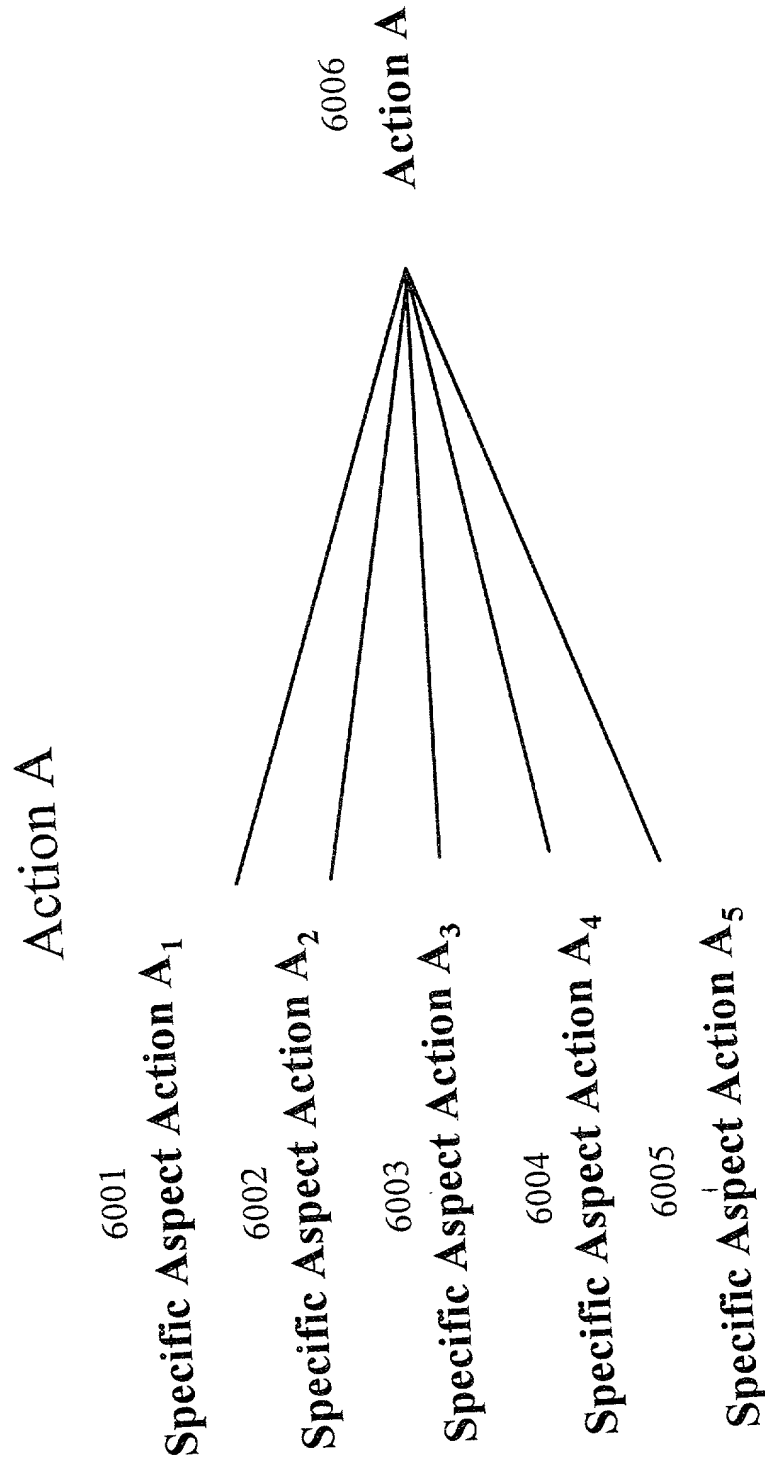


Fig. 6

* patents identified in any of these specific terms are rolled into one Action Data set.

Patent Crosstab Report

7001		7002	7003		7004	7005	7007	7008	7006					
Assignee	Document ID	Title	Issued	Document Type	Hits	Weighted Hits	Weighted Action	C01	C02	C03	C04	C05	C06	
Object Weights														
He Holdings	6025595	Sprite thermal imaging system with electronic zoom	2/15/00	US	3	4	2	1	1	1	1	1	1	
		SPRITE THERMAL IMAGING SYSTEM WITH ELECTRONIC ZOOM	8/13/98	PCT	3	4	3	1	1	1	1	1	1	
Raytheon	WO 98/35496	SPRITE THERMAL IMAGING SYSTEM	8/13/98	PCT	3	4	4	1	1	1	1	1	1	
Raytheon	WO 98/35497	Sprite thermal imaging system	4/14/98	US	3	4	3	1	1	1	1	1	1	
He Holdings	5739531	Thermal sight trainer	9/11/84	US	3	5	3	3	1	1	1	1	1	
United States Of America	4470816	Method and apparatus for thermal radiation imaging	2/8/00	US	2	4	3	1	1	1	1	1	1	
Liu, Zhong Qi	6023637	A SYSTEM FOR THE MONITORING AND DETECTION OF HEAT SOURCES IN OPEN AREAS	10/20/99	EP-B	2	4	2	2	1	1	1	1	1	
Empresa Nacional Bazan de Construcciones Naval Militares	EP 0 611 242 B1	Method of detection of cancerous lesions by their effect on the spatial distribution of modulation of temperature and homogeneity of tissue	10/5/99	US	2	4	1	2	1	1	1	1	1	
Omnicorder Technologies	5961466	Real time adaptive digital image processing for dynamic range remapping of imagery including low-light-level visible imagery	6/1/99	US	2	4	1	1	1	1	1	1	1	
Massachusetts Institute Of Technology	5909244	Method and apparatus for analyzing an image to detect and identify defects	9/29/98	US	2	4	4	1	1	1	1	1	1	
Vachtsevanos, George J.	5815198	Simplified simulation of effects of turbulence on digital imagery	5/26/98	US	2	4	1	4	2	1	1	1	1	
United States Of America	5756990	Thermal imaging device	4/7/98	US	2	4	4	2	1	1	1	1	1	
Hughes Electronics	5737119	Thermal imaging device with selectively replaceable telescopic lenses and automatic lens identification	9/30/97	US	2	4	4	2	1	1	1	1	1	
Hughes Electronics	5673143	Digital imaging device optimized for color performance	9/16/97	US	2	3	3	2	1	1	1	1	1	
Eastman Kodak	5668596	THERMAL IMAGING DEVICE	3/12/97	EP-A	2	4	4	1	1	1	1	1	1	
He Holdings Dba Hughes Electronics	EP 0 762 173 A2													

Fig. 7

Assignee Rollup

8001

8001

8022 8023 8024 8025 8026

Rank	Assignee	Hits	Recent Patents/Hits	Recent Patents	Weighted Hits	Weighted Action	C 01	R 001	C02 R 002	G03	R 003	C04 R 004	C05	R 005	C06 R 006
8002	Patents						62		87	20		34	263		249
8003	Issued Patents						49		65	17		23	206		222
8004	Applied Patents						13		22	3		11	57		27
8005	Recent Patents						16		33	10		11	55		40
8006	Issued Recent Patents						14		22	7		7	44		34
8007	Applied Recent Patents						2		11	3		4	11		6
8008	Dominance						0.48		0.26	0.20		0.44	0.48		0.40
8009	Recent Dominance						0.44		0.18	0.20		0.18	0.27		0.28
8010	Issued Innovation Factor 4						0.33		0.62	0.89		1.29	0.10		0.17
8011	Applied Innovation Factor 4						0.64		0.87	0.33		0.50	-0.02		0.19
8012	Predictive Innovation Factor 4						0.31		0.25	-0.36		-0.79	-0.12		0.02
1	Eastman Kodak	43	4	4			3		3	1			30	3	6
2	United States Of America	34	3	2					2	1			11	2	21
3	Texas Instruments	20	3	3					2			3	13	3	2
4	Xerox	18	4	4			17	3		1	1				
5	Minnesota Mining & Manufacturing	17	2	2			2		1	1			14	1	
6	Intl Business Machines	16	2	2					1			12	2		3
7	Hughes Electronics	16	3	2					1				10	2	5
8	Raytheon	15	11	8					5	2	2		6	6	2
9	Hughes Aircraft	14	13	1									3		11
10	Westinghouse Electric	12	12	5									2		10
11	Thermoscan	12	12	5											12
12	Konica	12	12	5			9	4					3	1	
13	Polaroid	12	1	1									8		2
14	Barr & Stroud	10	10	1					2	1			1		9
15	Matsushita Industrial Electric	10	10	3								1	9	3	

8020

Fig. 8A

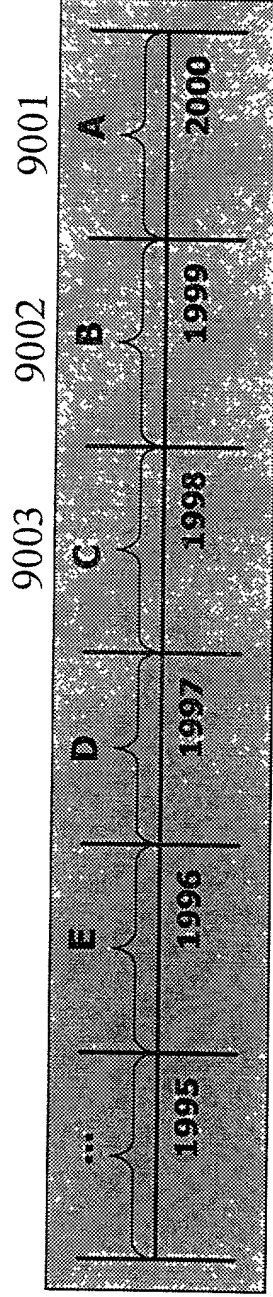
[illegible]

Assignee Rollup

	8021	8022	8023	8024	8025	8026
	Hits	Patents	Recent Hits	Recent Patents	Weighted Hits	Weighted Actions
1						
2						
3						
4						
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Cell Indices - Definitions

Innovation Factor 1 (Applied or Issued)

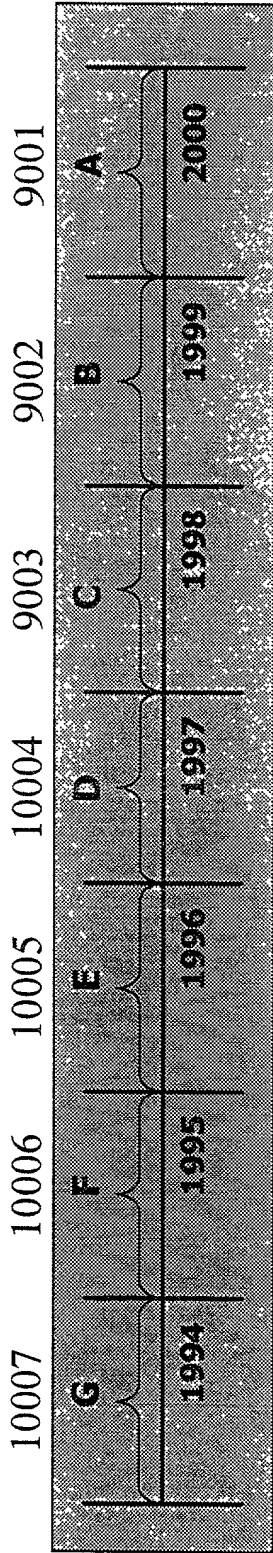


$$\text{Innovation Factor} = \frac{\text{9000} \quad \text{9001} \quad \text{A}}{(B+C)/2} \quad \begin{matrix} \text{9002} & \text{9003} \end{matrix}$$

Fig. 9

Cell Indices - Definitions

Innovation Factor 4 (Applied or Issued)



Innovation Factor 4 =

$$\frac{\left[\frac{(A-B)}{B} \times 6 \right] + \left[\frac{(B-C)}{C} \times 5 \right] + \left[\frac{(C-D)}{D} \times 4 \right] + \left[\frac{(D-E)}{E} \times 3 \right] + \left[\frac{(E-F)}{F} \times 2 \right] + \left[\frac{(F-G)}{G} \times 1 \right]}{21}$$

Fig. 10

Cell Selection Matrix

Cell Selection Index is calculated for each cell based on the implied suitability for joint ventures or internal development:

	01	02	03	04	05	06
	photo-receptor or	digital image	digital scan	remote network or	thermal image	optic align
11001 { A B C	4 20	4 15	1.25 5	1.25 10.5	6 17.5	0 3.5
	License					
	License					
	License					
11002 { A B C	6 5	16 15	1.25 7.5	1.25 7	14 0.75	0 1.5
	Develop					
	Develop					
	Develop					

Fig. 11

Cell Selection Index

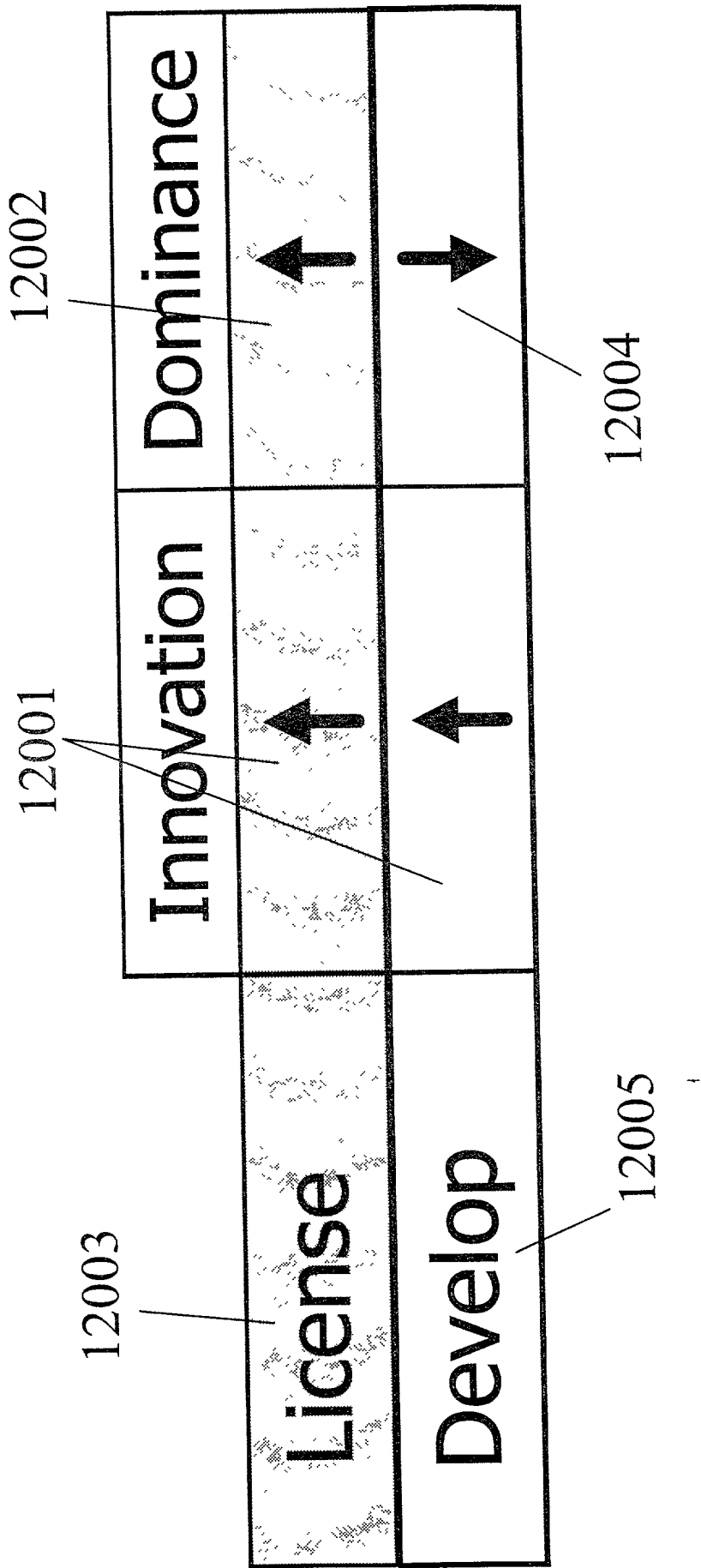


Fig. 12

[illegible]

Fig. 13A

Cell Selection Score - Bubble Chart

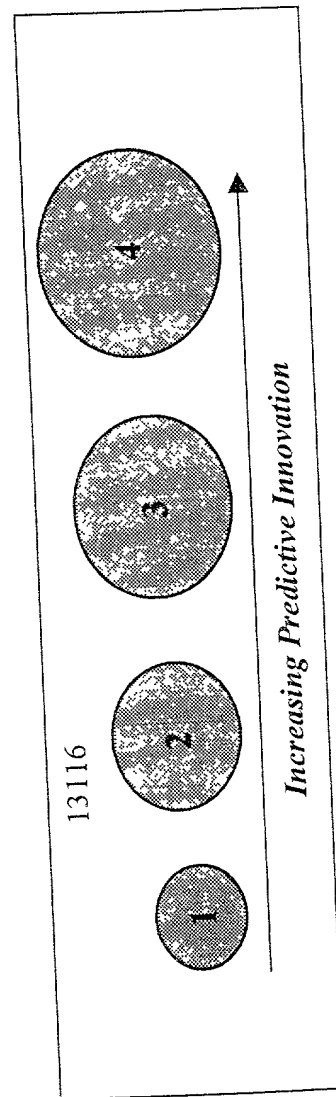
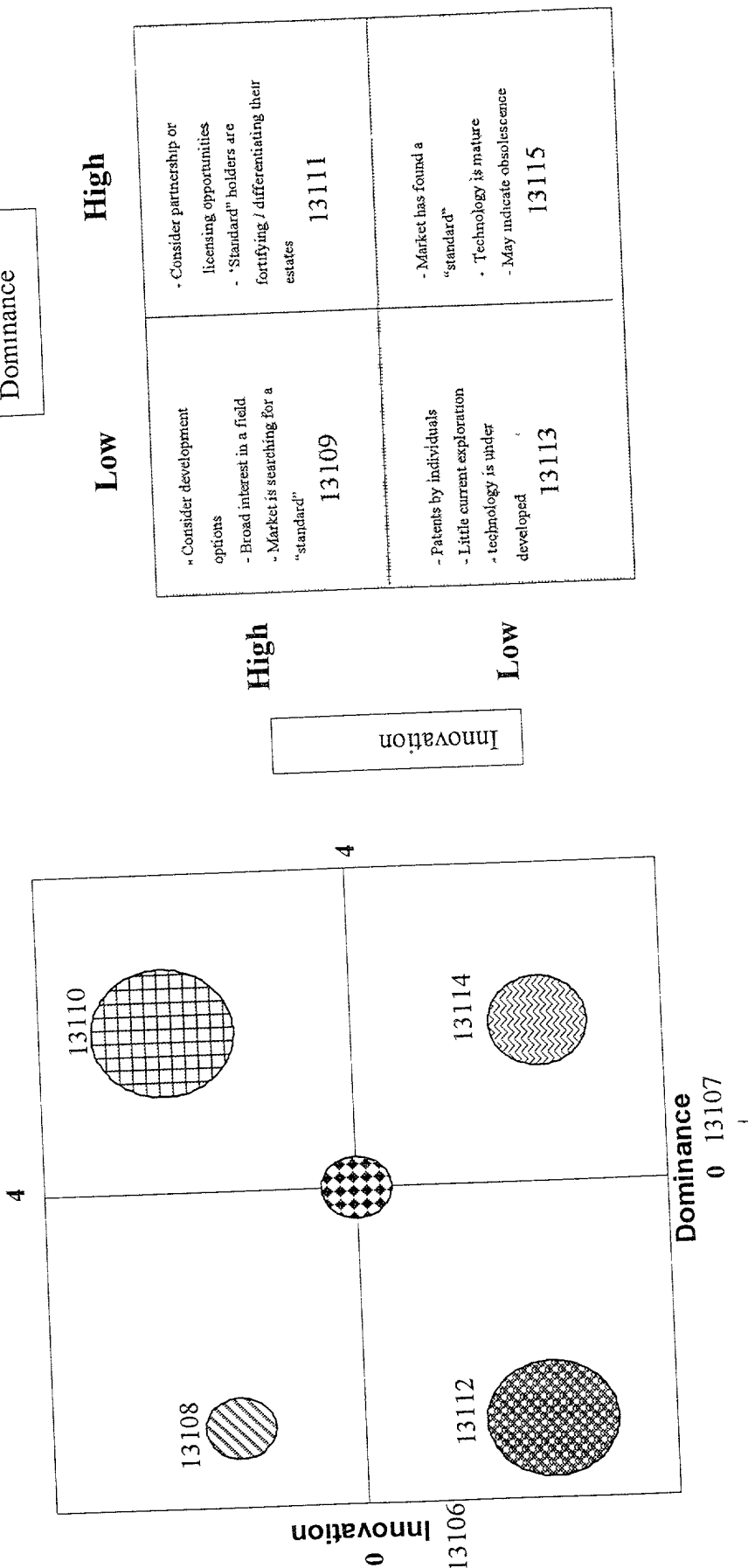


Fig. 13B

Assignee Composite Score

14002 ↓	14001														
	Rank	Assignee					C01	C02	C03	C04	C05	C06			
	1	A	61.4	46.1	5.1	0.0	59.0	25.0							
	2	B	0.0	55.4	0.0	0.0	26.4	80.6							
	3	C	0.0	30.0	0.0	31.5	28.0	7.0							
	4	D	400.0	0.0	10.0	0.0	0.0	0.0							
	5	E	40.0	30.0	0.0	0.0	26.3	0.0							
	6	F	0.0	15.0	0.0	147.0	0.0	10.5							
	7	G	0.0	18.5	0.0	0.0	26.8	26.8							
	8	H	0.0	147.3	28.6	0.0	30.1	20.0							
	9	I	0.0	0.0	0.0	0.0	5.7	45.0							
	10	J	0.0	0.0	0.0	0.0	3.5	35.0							
	11	K	0.0	0.0	0.0	0.0	0.0	59.5							
	12	L	260.0	0.0	0.0	0.0	7.0	0.0							
	13	M	0.0	45.0	0.0	0.0	14.0	7.0							
	14	N	0.0	0.0	0.0	0.0	1.8	31.5							
15	O	0.0	0.0	0.0	10.5	21.0	0.0								
		photo-receptor or	digital image	digital scan	remote network or	thermal image	optic align								

14010

Fig. 14

Assignee Composite Score Normalized

Rank	Assignee	14003	14004	14005	14006	14007	14008
		photo-receptor or C01	digital image C02	digital scan C03	remote network or C04	thermal image C05	optic align C06
1	A	15.4	25.6	8.5	0.0	100.0	31.0
2	B	0.0	30.8	0.0	0.0	44.7	100.0
3	C	0.0	16.7	0.0	21.4	47.5	8.7
4	D	100.0	0.0	16.7	0.0	0.0	0.0
5	E	10.0	16.7	0.0	0.0	44.5	0.0
6	F	0.0	8.3	0.0	100.0	0.0	13.0
7	G	0.0	10.3	0.0	0.0	45.4	33.2
8	H	0.0	81.8	47.7	0.0	51.0	24.9
9	I	0.0	0.0	0.0	0.0	9.6	55.8
10	J	0.0	0.0	0.0	0.0	5.9	43.4
11	K	0.0	0.0	0.0	0.0	0.0	73.8
12	L	65.0	0.0	0.0	0.0	11.9	0.0
13	M	0.0	25.0	0.0	0.0	23.7	8.7
14	N	0.0	0.0	0.0	0.0	3.0	39.1
15	O	0.0	0.0	0.0	7.1	35.6	0.0

15010

Fig. 15A

Assignee Composite Score

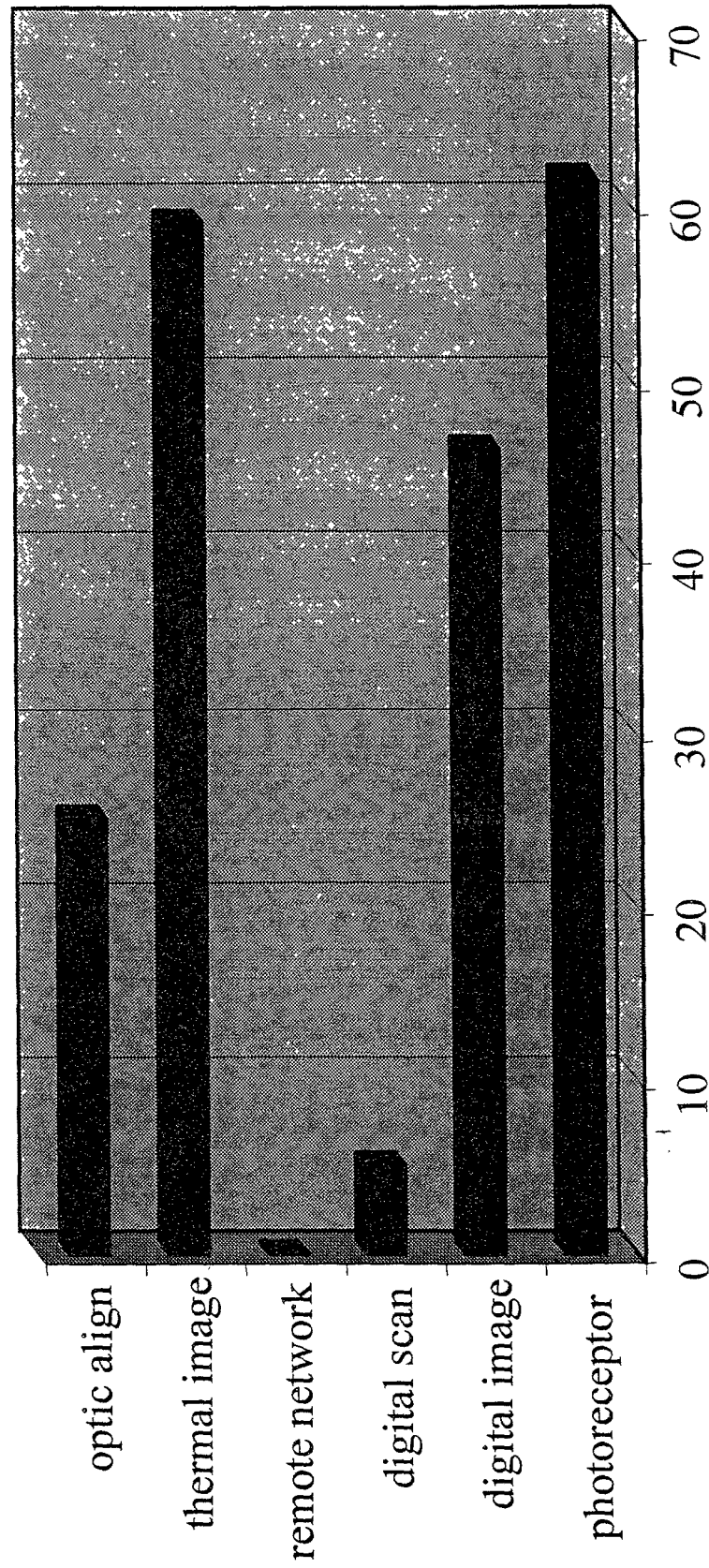


Fig. 15B

Assignee Composite Score

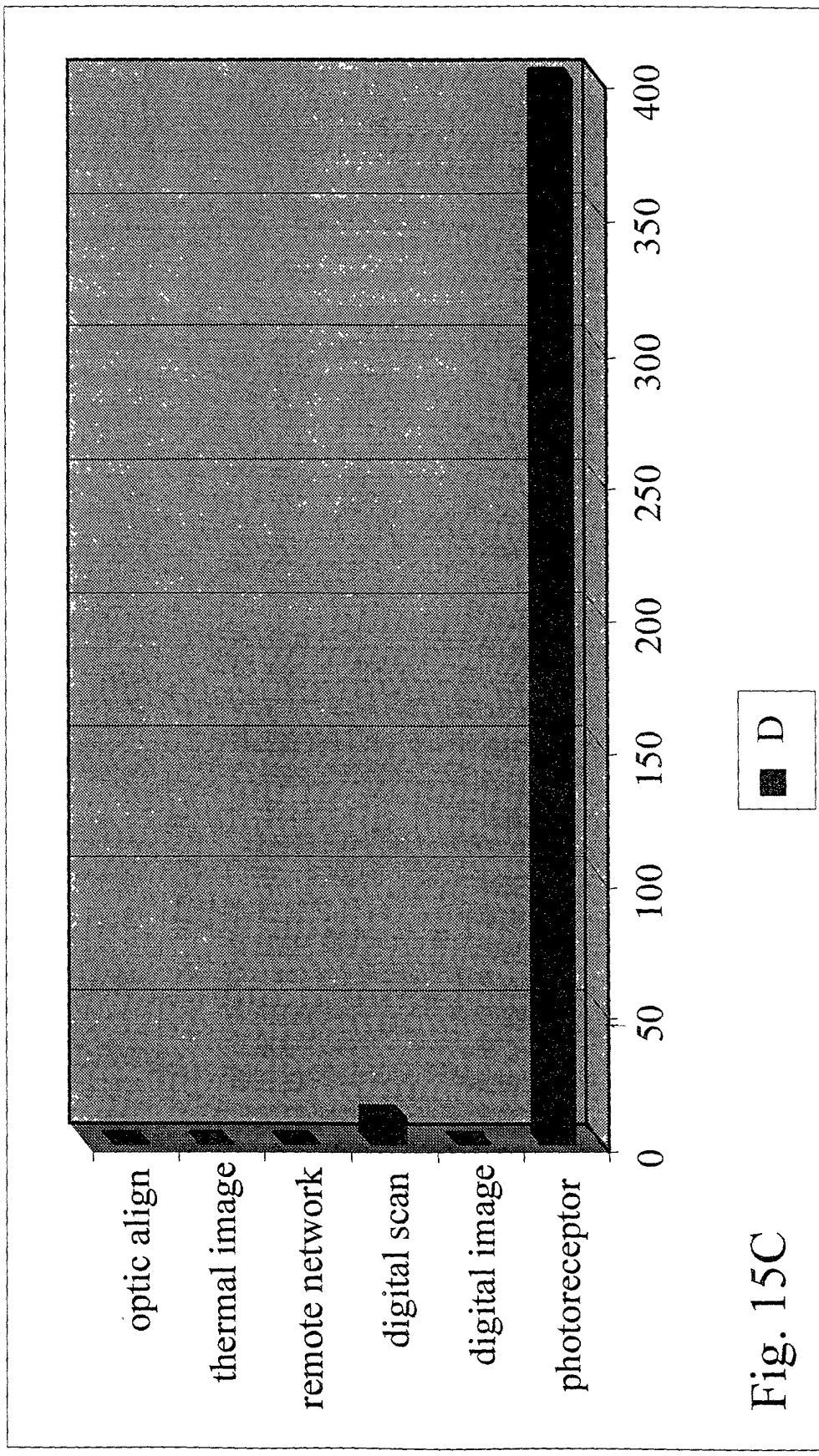


Fig. 15C

[illegible]

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Assignee Composite Score

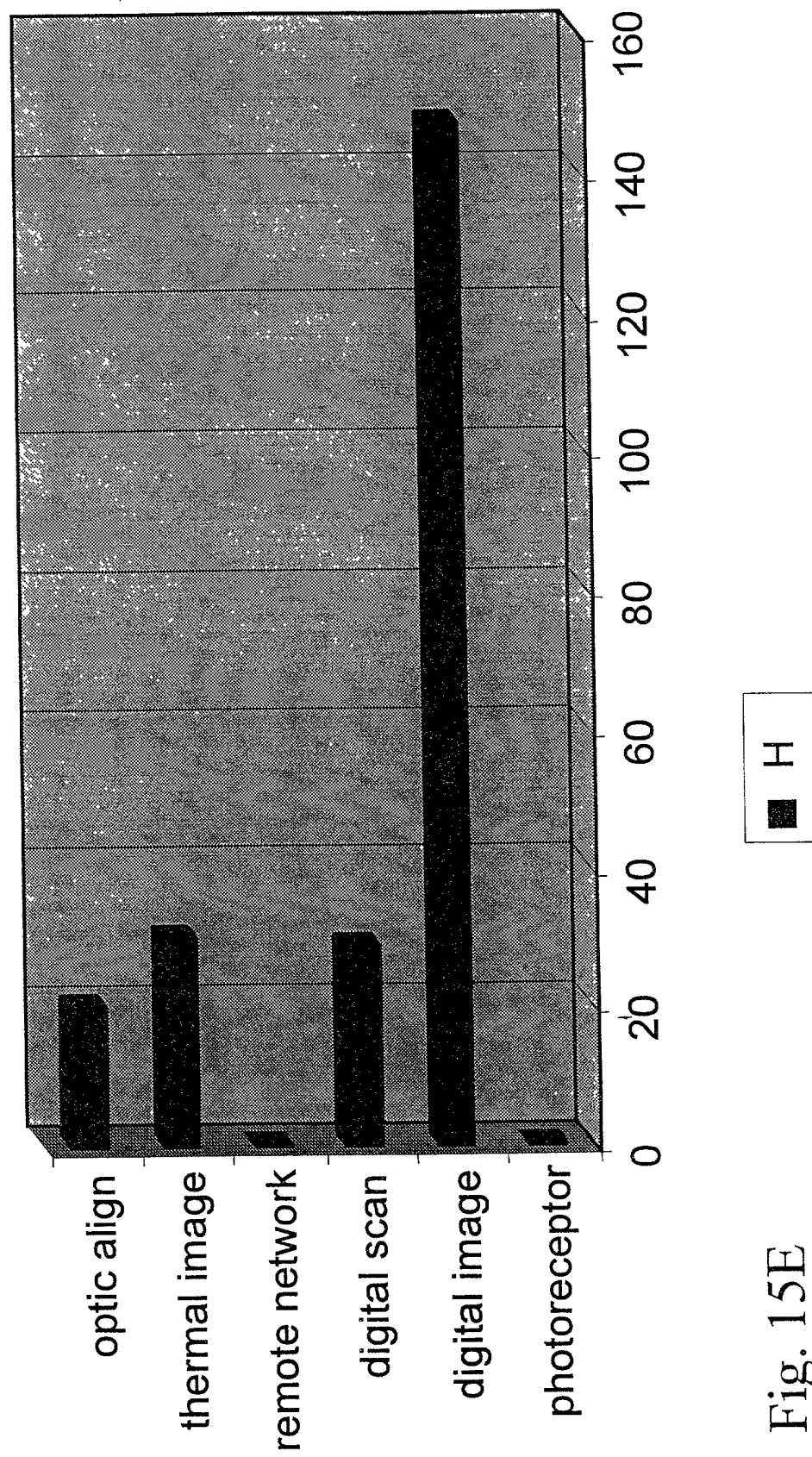


Fig. 15E

Graphical Representation of Assignee Composite Score

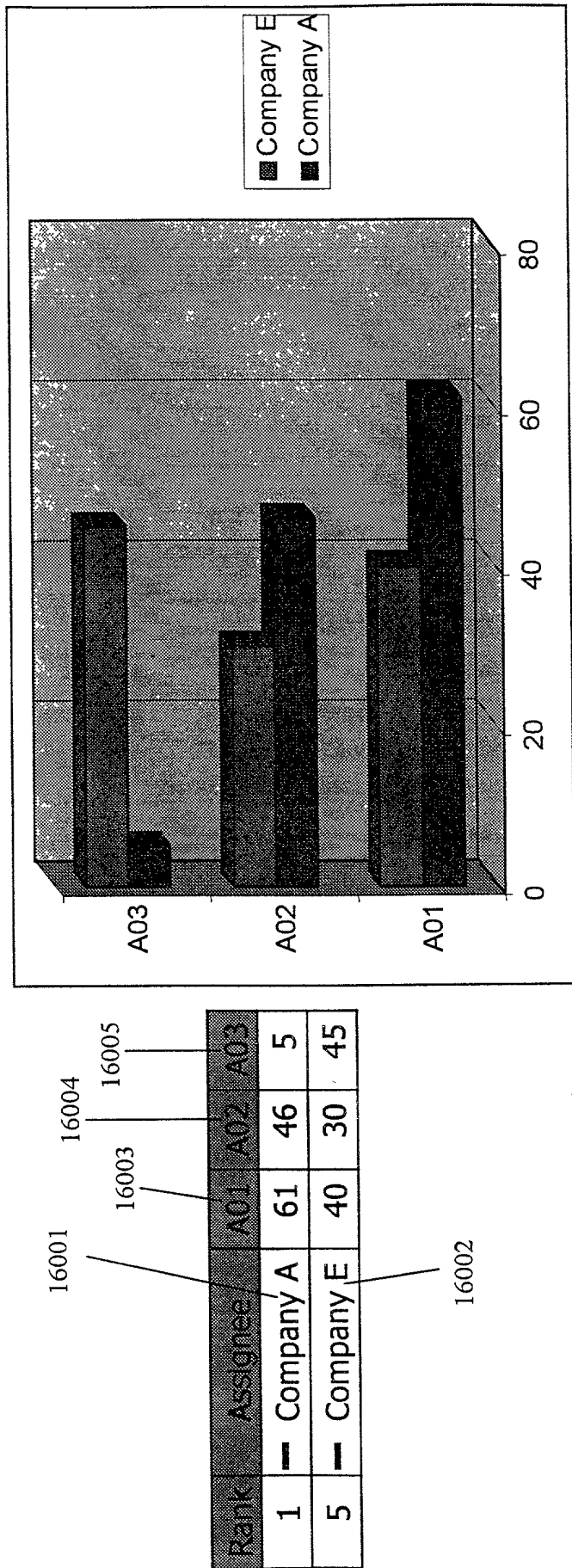


Fig. 16

Assignee Composite Score

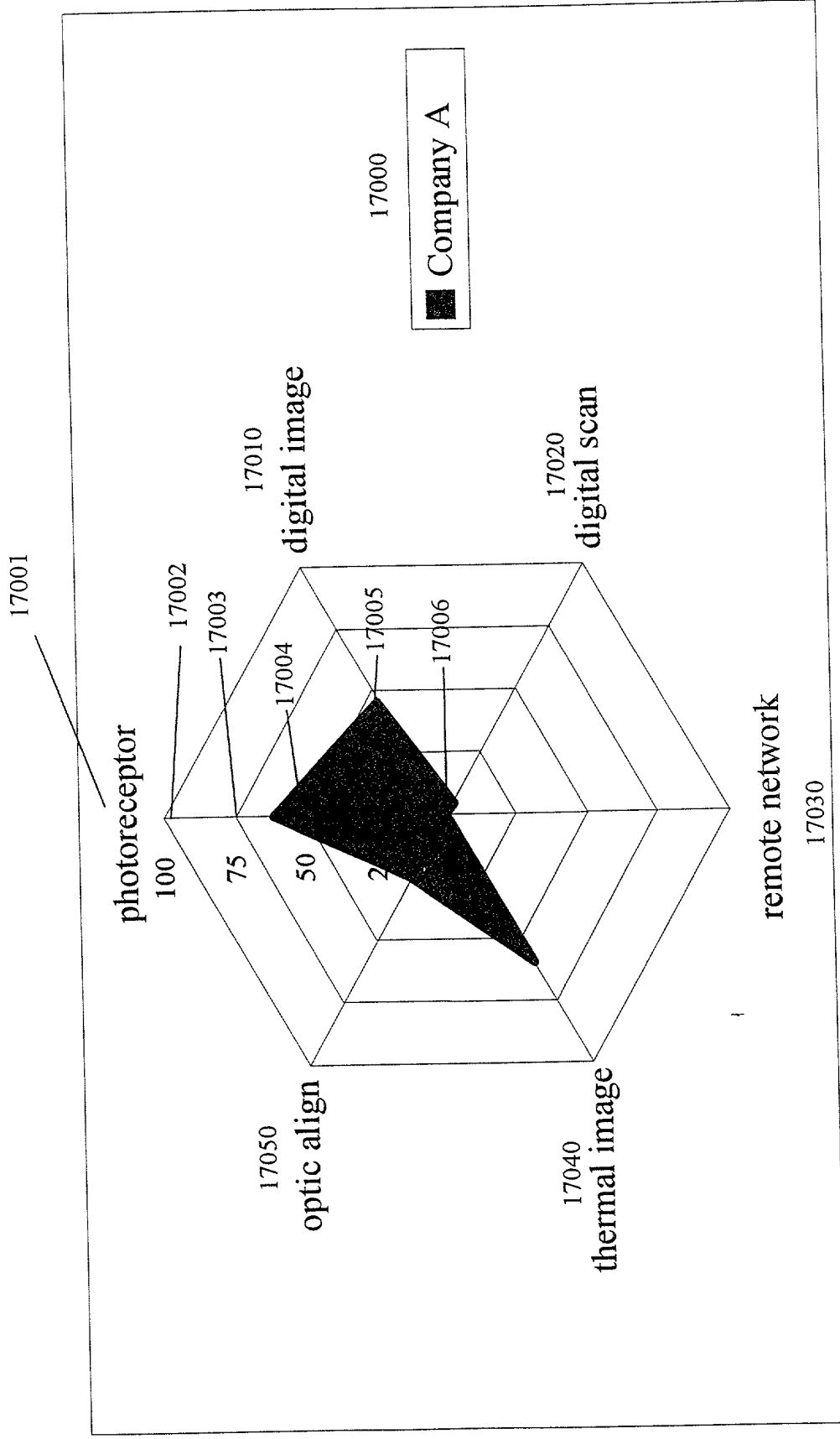
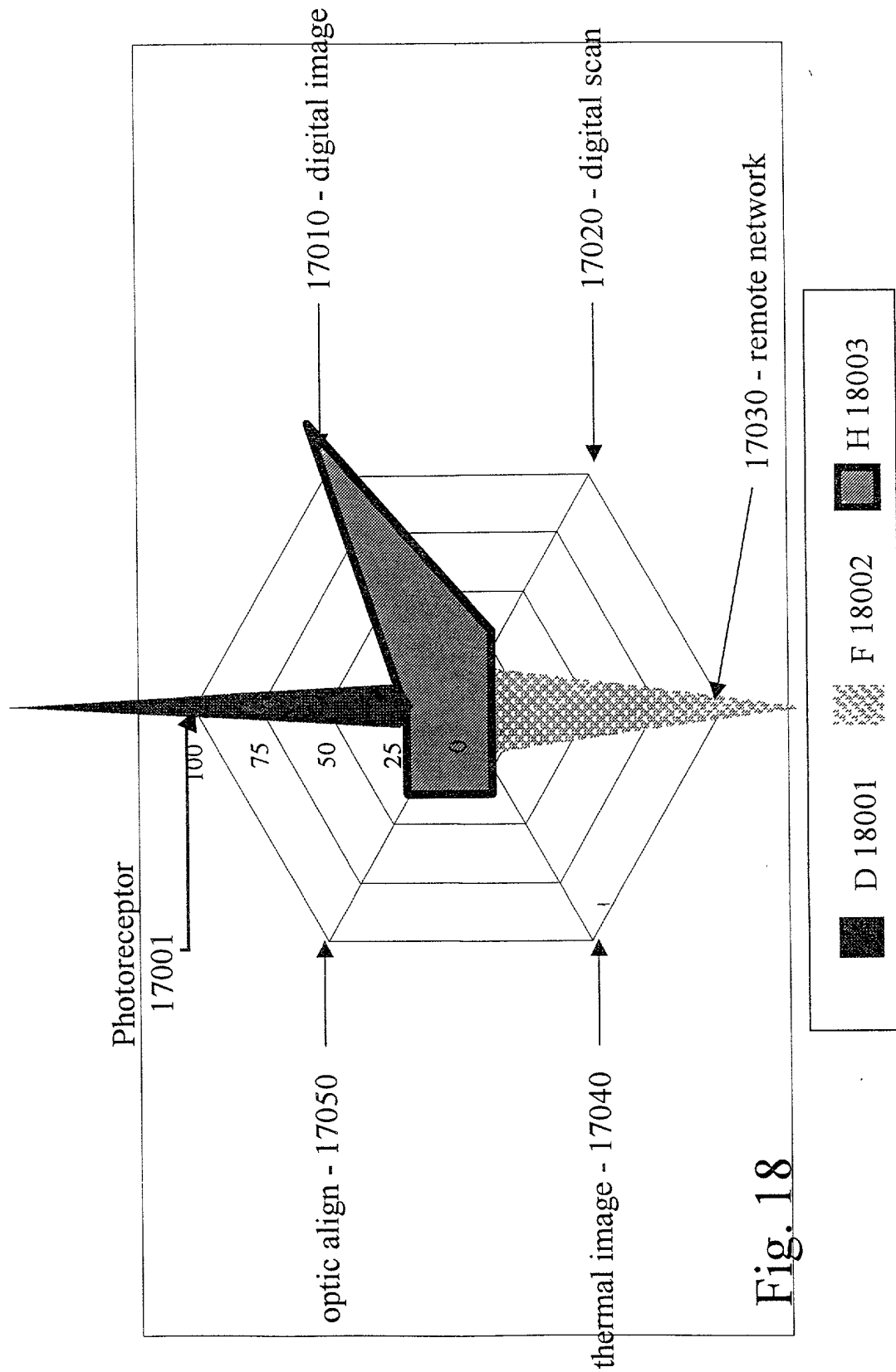


Fig. 17

Assignee Composite Score



Assignee Composite Score

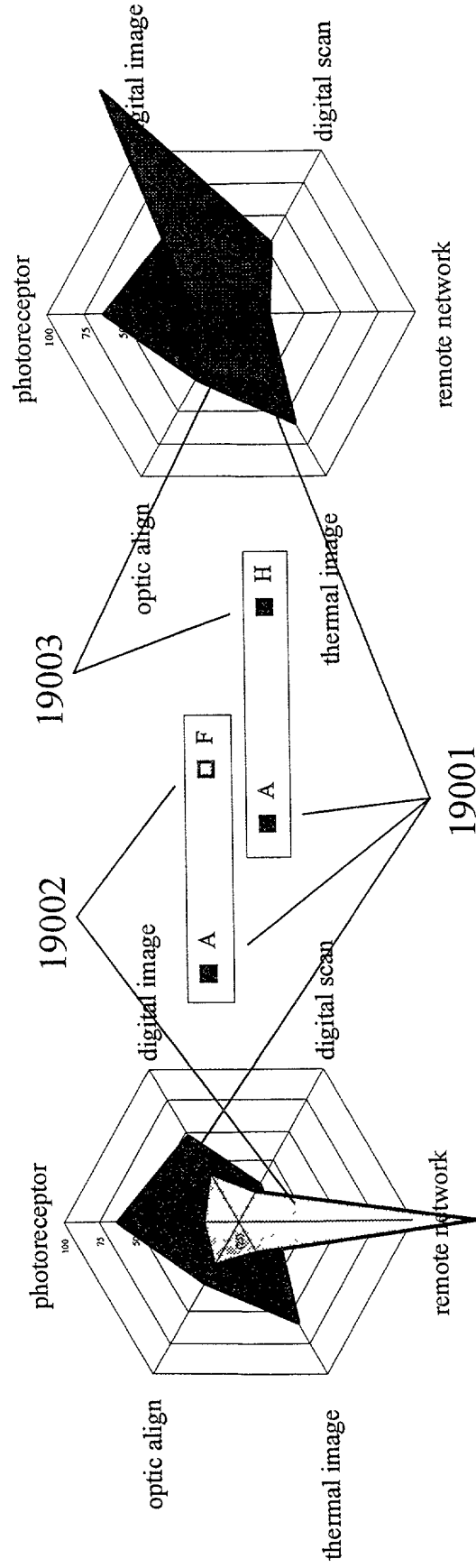


Fig. 19

20100

Target Partner 1

Assignee Specific Cell Selection Indices

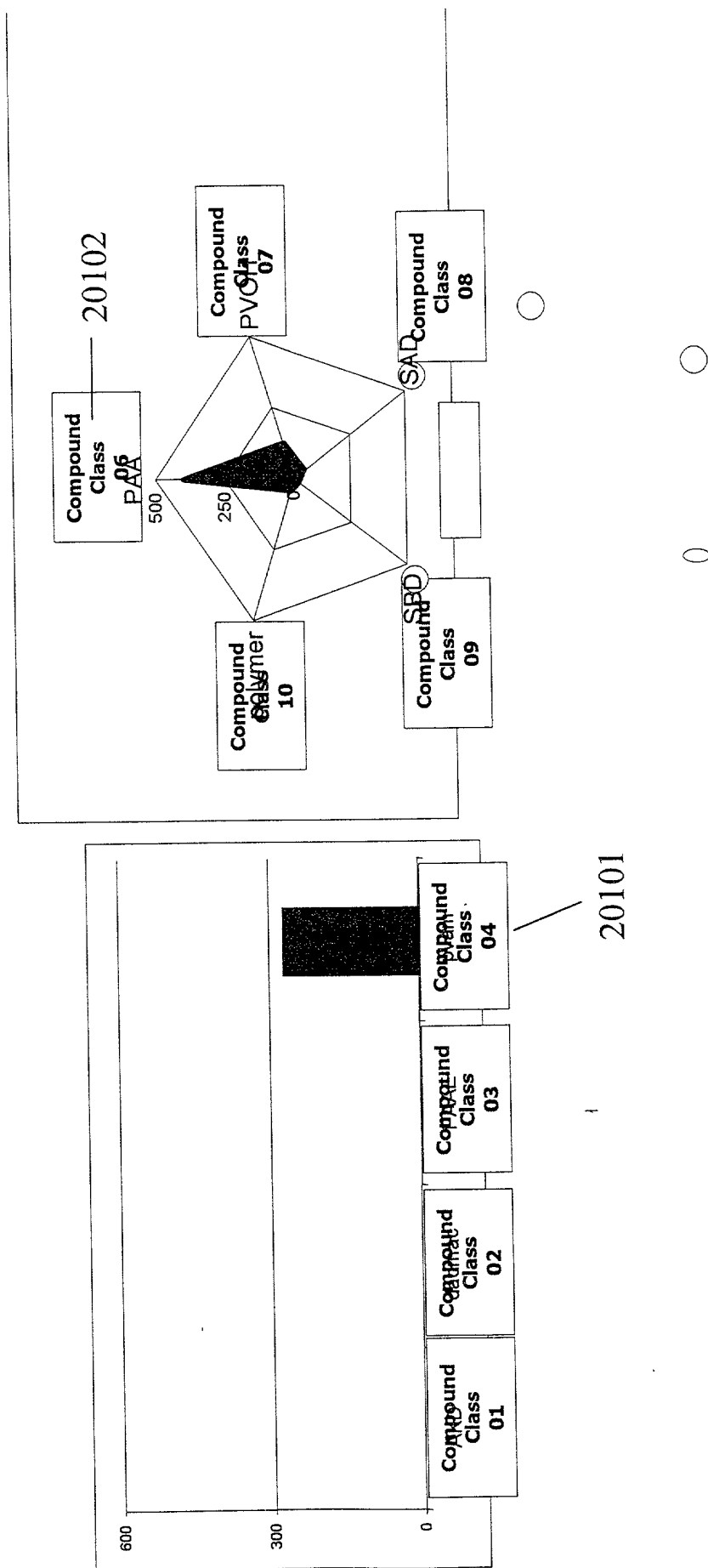


Fig. 20A

20200

Alternative Partner 2 Assignee Specific Cell Selection Indices

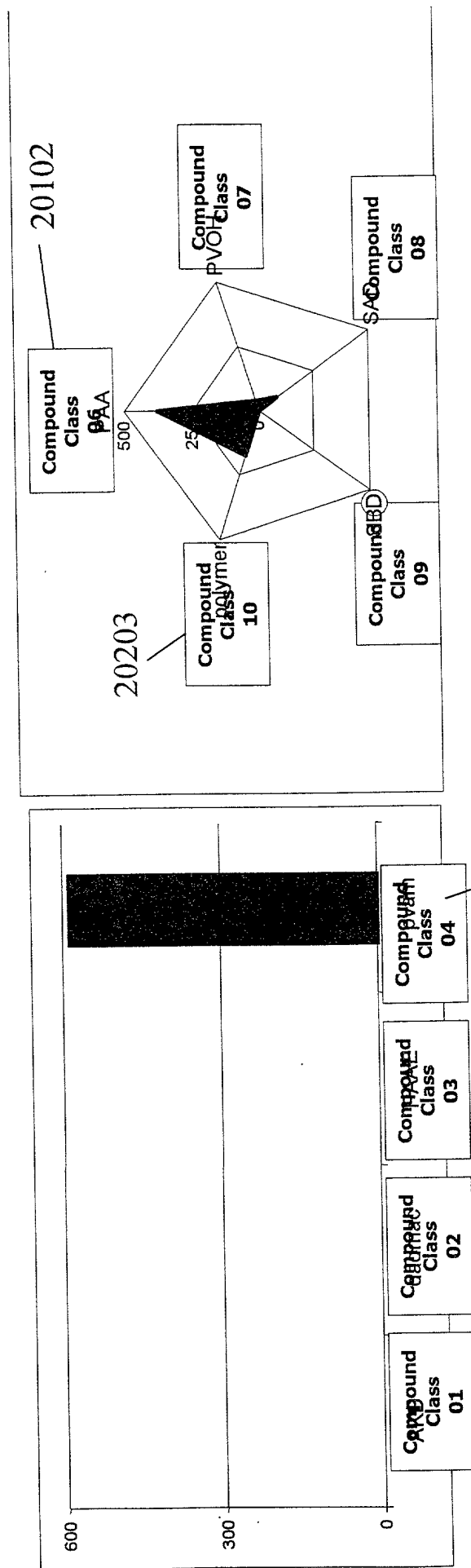


Fig. 20B

Alternative Partner 3

Assignee Specific Cell Selection Indices

20300

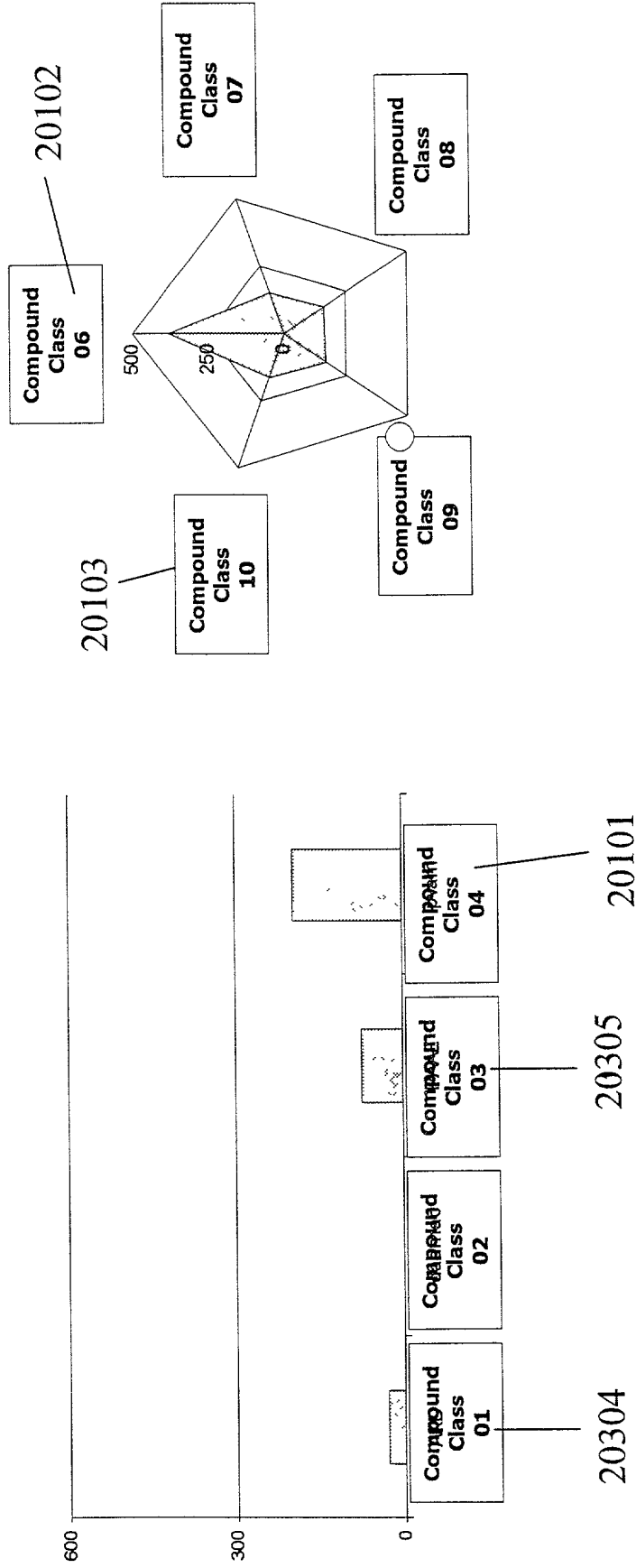


Fig. 20C

Assignee Field Index vs. Patent Count

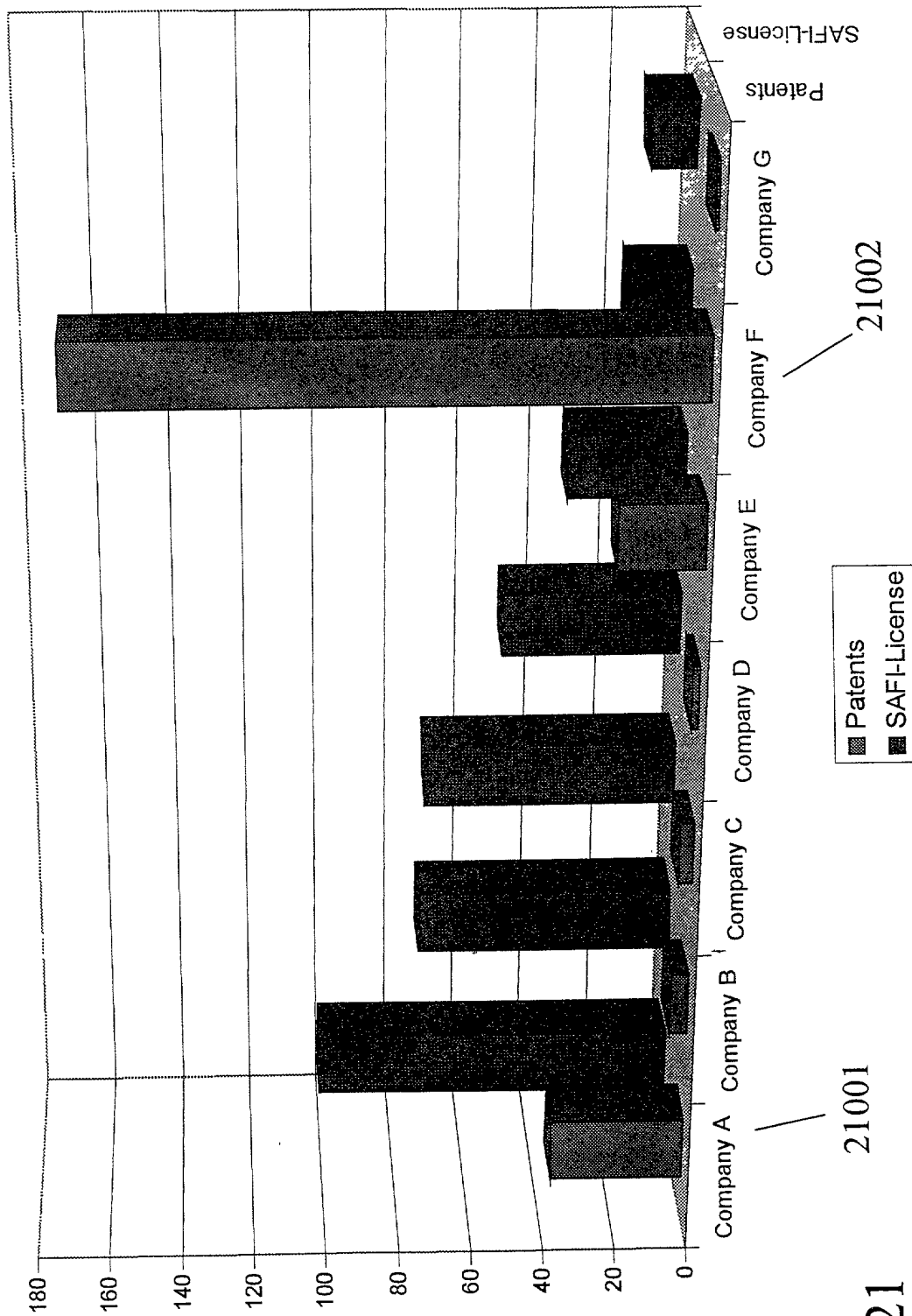


Fig. 21

Standardized Assignee Cell Index - Application B

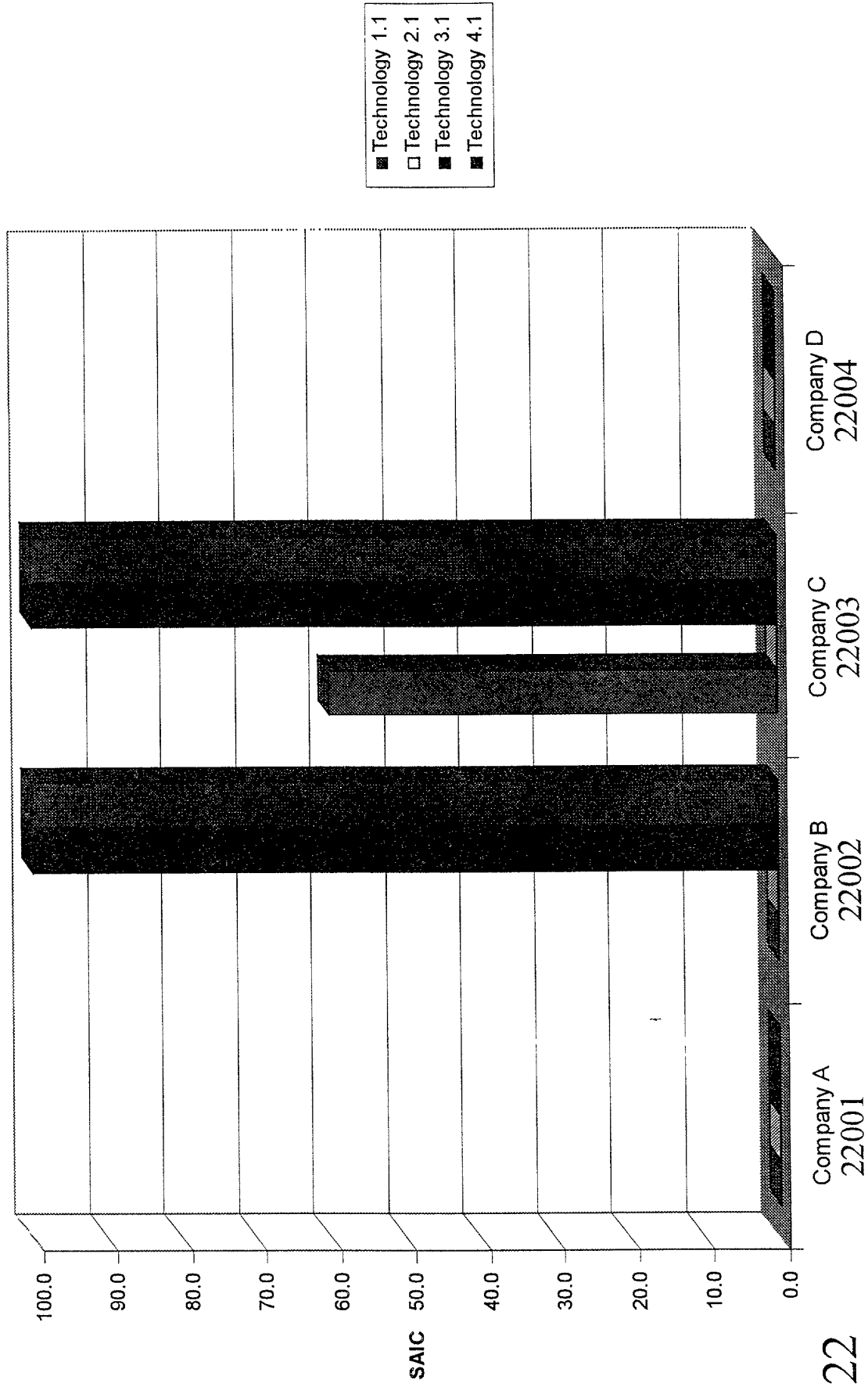


Fig. 22

Standardized Assignee Cell Index - Application C

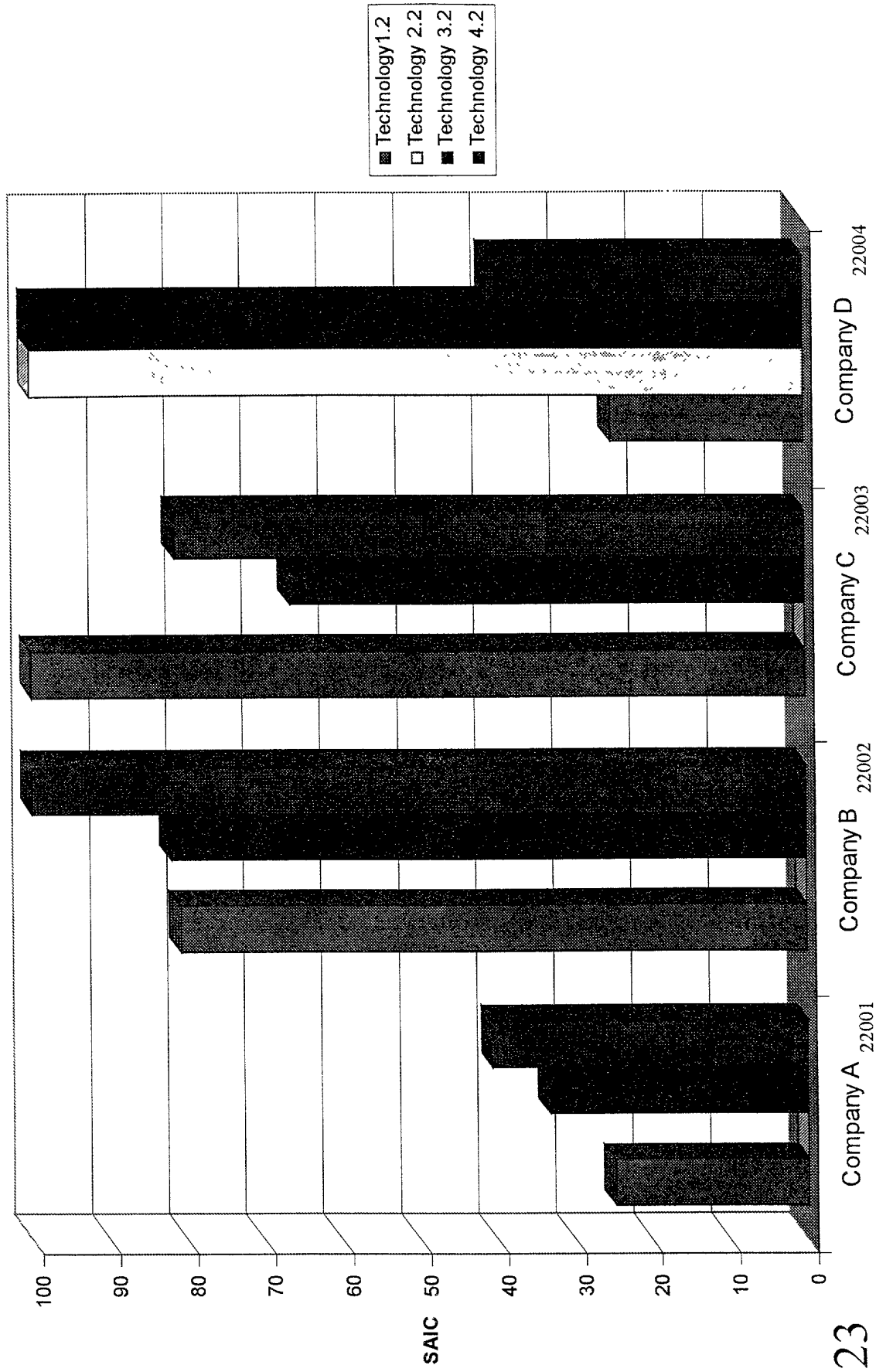


Fig. 23

Standardized Assignee Cell Index: Company A vs.

Company B

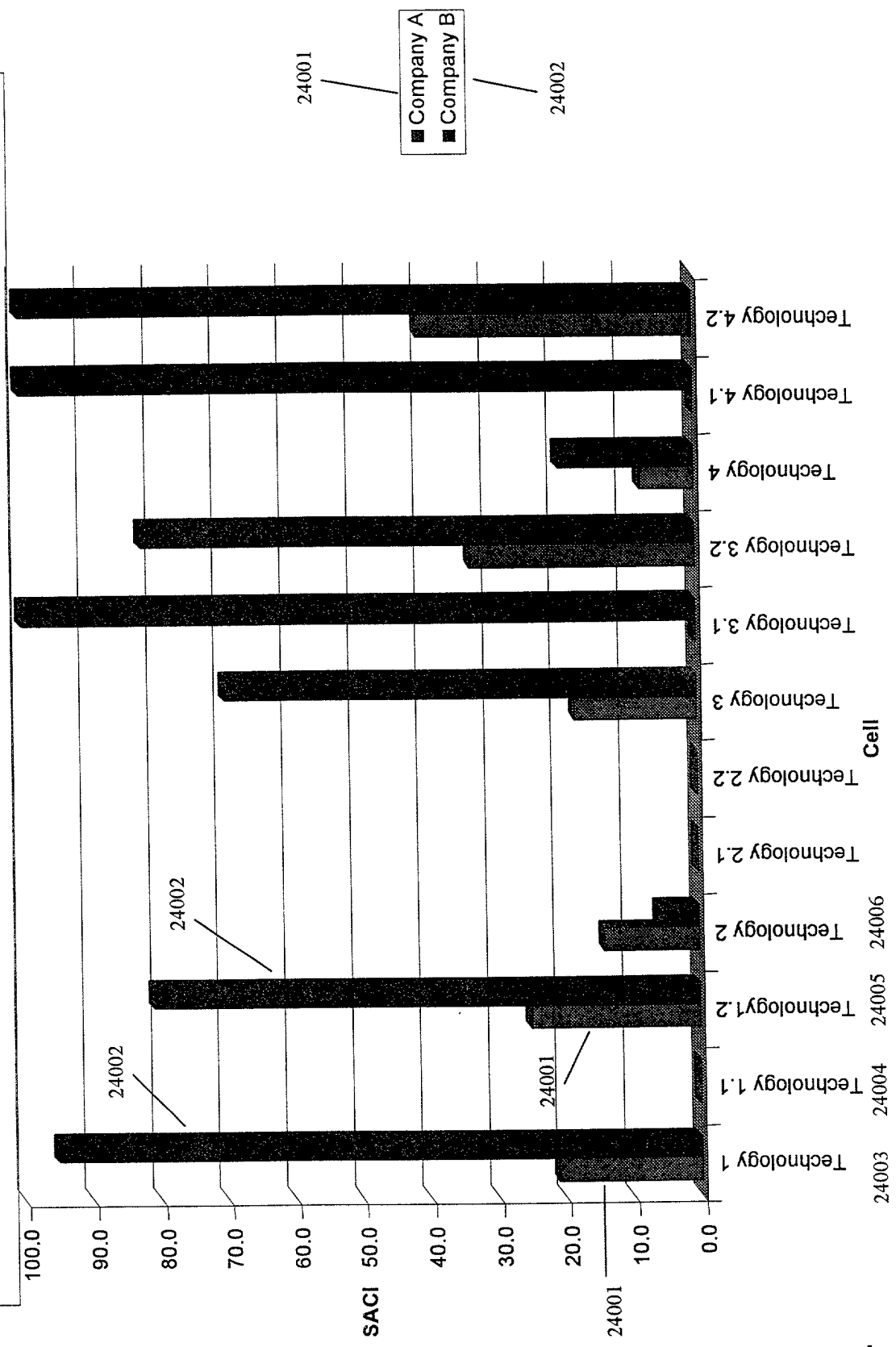


Fig. 24

Naturally Defined Clusters

Clusters	Count of Cells	Occurrences
C05.A05	2	18
C06.A06	2	18
A01.C01	2	16
A02.C02	2	14
A05.C05	2	14
A06.C06	2	14
B06.C06	2	10
C02.C05	2	10
C01.A01	2	8
C03.C05.C02	3	6
C02.C03	2	6
C05.C02	2	6
C06.B06	2	6
C04.A04.A06.C06	4	4
C06.A06.C05.A05	4	4

	01	02	03	04	05	06
A near infrared	photoreceptor	digital image	digital scan	wireless network	thermal image	optic align
B far infrared						
C infrared						

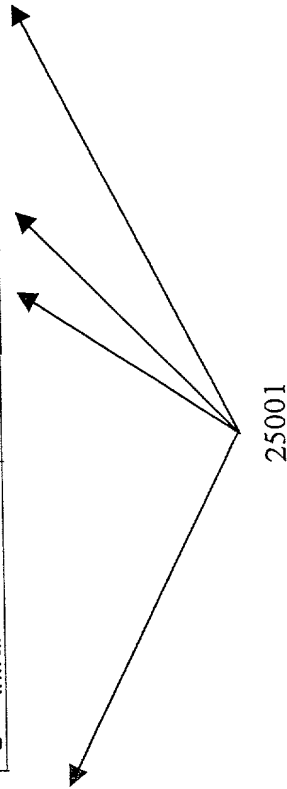


Fig. 25A

Top Assignees Across a Selected Cluster

C02, C03, C05

C02, C03, C05
Eastman Kodak
Minnesota Mining & Manufacturing
Texas Instruments
United States Of America
Hughes Electronics
Polaroid
Raytheon
Matsushita Industrial Electric
Us Philips
He Holdings Dbh Hughes Electronics
Honeywell
Agfa-Gevaert
Massachusetts Institute Of Technology
Cairns & Brother
Nec
Raytheon Ti Systems

Fig. 25B

Top Inventors

Eastman Kodak

Inventor	Hits	Patents	Weighted Hits	Weighted Action
Chapman, Derek D.	10	10	11	4
DeBoer, Charles D.	8	8	9	5
Evans, Steven	6	6	6	3
Burberry, Mitchell S.	3	3	4	3
Schildkraut, Jay S.	2	2	3	4
Tutt, Lee W.	2	2	3	3
Momot, David	2	2	2	3
Bugner, Douglas E.	2	1	2	4
Byers, Gary W.	2	1	2	6
Kolb, Jr., Frederick J.	2	1	2	2
Vogel, Richard M.	2	1	2	1
Harvey, Donald M.	1	1	3	4
De Groot, Gerald H.	1	1	2	5
McIntyre, Dale F.	1	1	2	1
Simpson, William H.	1	1	2	3
Bloom, Richard M.	1	1	1	2

Fig. 26

Internet Portal Based Patent Search Tool

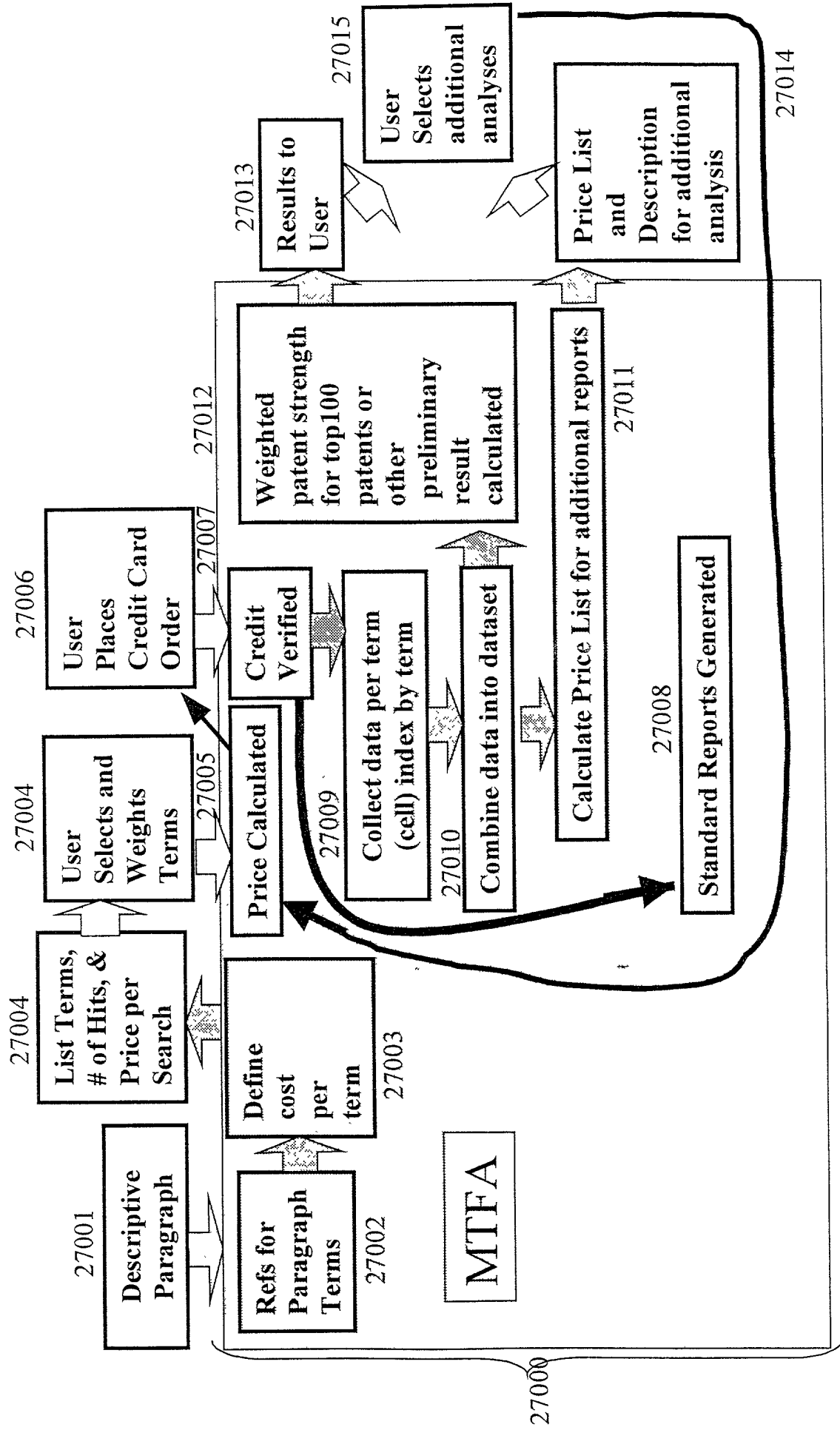


Fig. 27

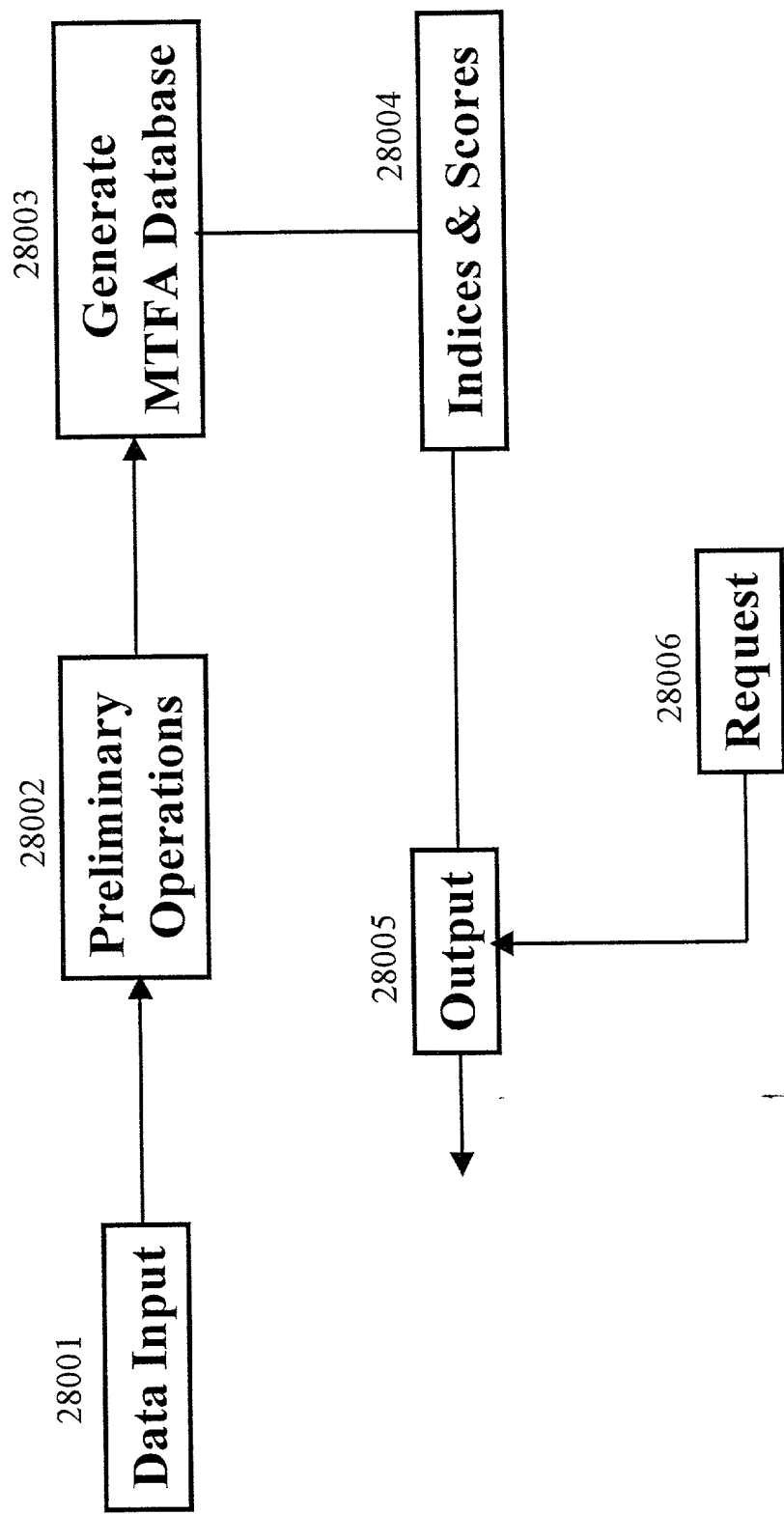


Fig. 28

MTFA Altitude

All Information 29001

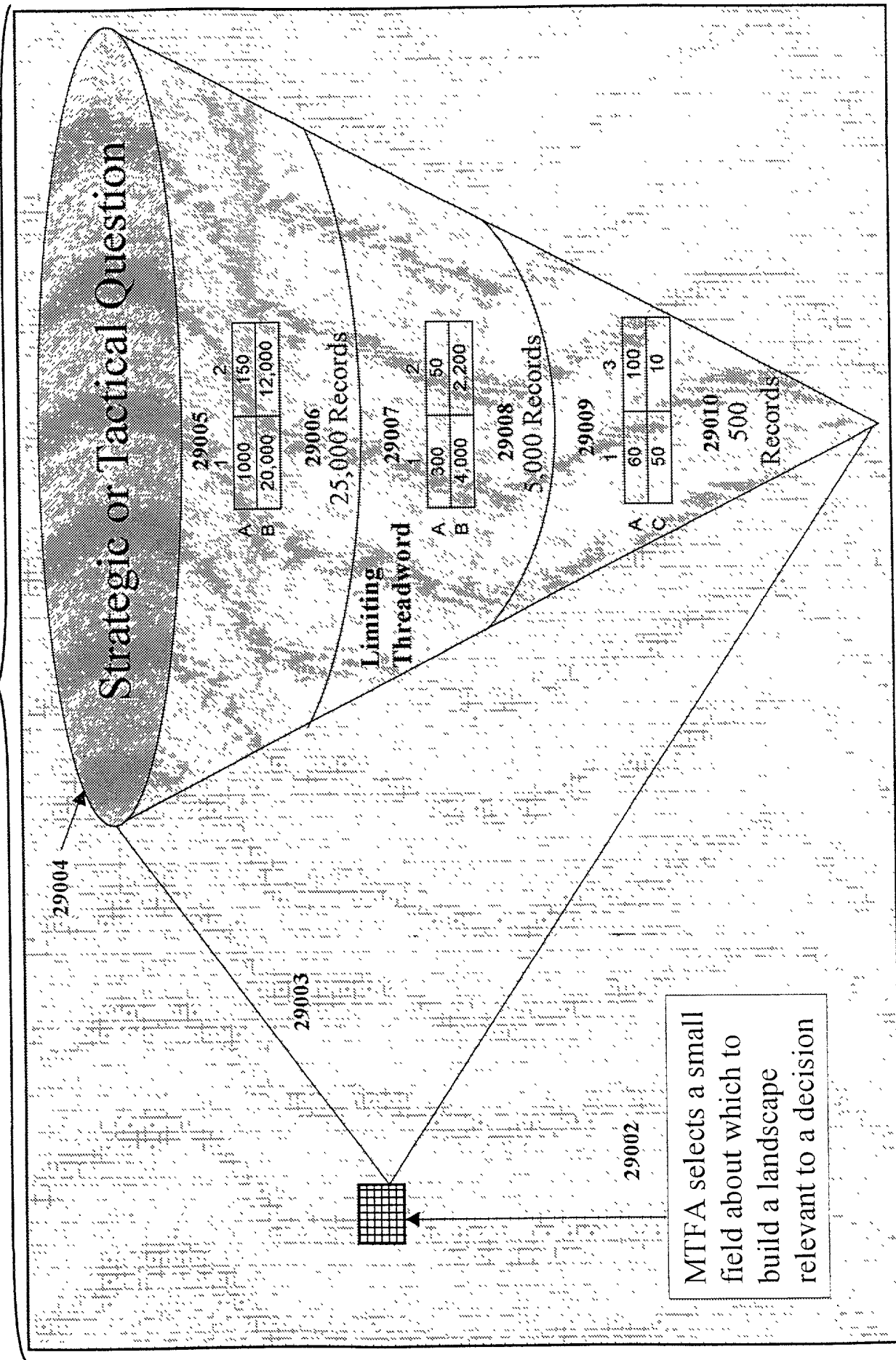


Figure 29